

IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

Declaration and Power of Attorney

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled **FILTERED CALCULATION OF SENSOR ARRAY INDUCED PHASE ANGLE INDEPENDENT FROM DEMODULATION PHASE OFFSET OF PHASE GENERATED CARRIER** the specification of which *is attached herewith*.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment, if any, specifically referred to in this oath or declaration.

I acknowledge the duty to disclose all information known to me which is material to patentability as defined in Title 37, Code of Federal Regulations, 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

None

I hereby claim the benefit under Title 35, United States Code, 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, 112, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

None

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint the following attorney(s) with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith:

	Terry J. Anderson	Reg. No.	24,271
	Gerald L. Lett		24,509
	Walter G. Sutcliff		24,914
	Michael H. Wallach		27,406
	Karl J. Hoch, Jr.		34,181
	Scot R. Hewitt		35,191
	Carmen B. Patti		26,784
	Robert J. Brill		36,760
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Patti & Brill, LLC Customer Number 32205

Full name of sole inventor: David B. Hall

Inventor's
signature David B. Hall Date July 2, 2003

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Post Office Address:

All written communications are to be addressed to:

Robert J. Brill
Patti & Brill, LLC
Customer Number 32205

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Name of conveying party(ies):

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Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of Conveyance:

- | | |
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Execution Date(s): 7/2/2003

2. Name and address of receiving party(ies):

Name: Northrop Grumman Corporation

Address: 21240 Burbank Boulevard
Woodland Hills, CA 91367-6675

Additional name(s) & address(es) attached? Yes No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date(s) of the application is (are): 7/2/2003

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Robert J. Brill
Patti & Brill, LLC
Customer Number 32205

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.4): \$ 40.00
 Enclosed
 Authorized to be charged to deposit account

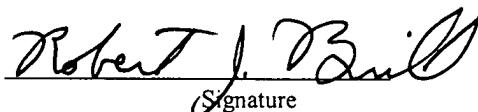
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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

 Robert J. Brill
 Name of Person Signing
 Reg. No. 36,760


 Signature

 July 9, 2003

Date

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